CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/SEHK/W.No.15/CSR-03/306g/CEMENT/2016-17 Date: 27.03.2017

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. S.E. Hemanthkumar,** #290, 5th Cross, 6th A Main Road, Bhuvaneshwari Nagara, Bangalore – 560 057.
*** Name of Work**	:	Improvements & Construction of CC drains back side of the Ayyappa temple road Dasarahalli in Ward No.15, Dasarahalli Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/DZ/AEE/TDSD/PR/146/2016-17 Dated: 25.03.2017
*** Sample ID**	:	Cement
Sample Received on	:	25.03.2017
Period of Testing	:	25.03.2017 to 27.03.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	170 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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Technical Manager

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Job No.: CTCE/BBMP/SEHK/W.No.15/CSR-03/306g/SAND-Gradation/2016-17

27.03.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. S.E. Hemanthkumar,** #290, 5th Cross, 6th A Main Road, Bhuvaneshwari Nagara, Bangalore – 560 057.
* Name of Work	:	Improvements & Construction of CC drains back side of the Ayyappa temple road Dasarahalli in Ward No.15, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/146/2016-17 Dated: 25.03.2017
* Sample ID	:	Fine Aggregates (Manufactured Sand)
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	25.03.2017
Date of Testing	:	27.03.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.70	90-100	90-100	90-100	95-100
2.36	75.70	60-95	75-100	85-100	95-100
1.18	54.20	30-70	55-90	75-100	90-100
600 Micron	22.20	15-34	35-59	60-79	80-100
300 Micron	12.00	5-20	8-30	12-40	15-50
150 Micron	4.80	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/SEHK/W.No.15/CSR-03/306g/AGG/GR/2016-17 27.03.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. S.E. Hemanthkumar,** #290, 5th Cross, 6th A Main Road, Bhuvaneshwari Nagara, Bangalore – 560 057.
* Name of Work	:	Improvements & Construction of CC drains back side of the Ayyappa temple road Dasarahalli in Ward No.15, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/146/2016-17 Dated: 25.03.2017
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	25.03.2017
Date of Testing	:	27.03.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.36	95-100	85-100
20	34.76	30-70	0-20
10	16.26	10-35	0-5
4.75	2.42	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/SEHK/W.No.15/Steel/2016-17

28.03.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. S.E. Hemanthkumar,** #290, 5th Cross, 6th A Main Road, Bhuvaneshwari Nagara, Bangalore – 560 057.
* Name of work	:	Improvements & Construction of CC drains back side of the Ayyappa temple road Dasarahalli in Ward No.15, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/146/2016-17 Dated: 25.03.2017
* Samples ID	:	8mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	28.03.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	510	512	13.05	O.K	O.K

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Job No.: CTCE/BBMP/SEHK/W.No.15/Steel/2016-17 28.03.2017

TEST REPORT ON REINFORCEMENT STEEL

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* Name of work	:	Improvements & Construction of CC drains back side of the Ayyappa temple road Dasarahalli in Ward No.15, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/146/2016-17 Dated: 25.03.2017
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	28.03.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	512	514	13.25	O.K	O.K

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Job No.: CTCE/BBMP/SEHK/W.No.15/CSR-03/306g/Cube/2016-17 27.04.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. S.E. Hemanthkumar,** #290, 5th Cross, 6th A Main Road, Bhuvaneshwari Nagara, Bangalore – 560
* Name of the work	:	Improvements & Construction of CC drains back side of the Ayyappa temple road Dasarahalli in Ward No.15, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/146/2016-17 Dated: 25.03.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	27.04.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.03.2017	27.04.2017	8.130	485.5	21.58
2	30.03.2017	27.04.2017	8.256	496.8	22.08
3	30.03.2017	27.04.2017	8.385	510.2	22.68

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Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	27.04.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.03.2017	27.04.2017	8.190	483.5	21.49
2	30.03.2017	27.04.2017	8.209	506.5	22.51
3	30.03.2017	27.04.2017	8.335	525.8	23.37

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* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	28.04.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.03.2017	28.04.2017	8.162	510.3	22.68
2	31.03.2017	28.04.2017	8.205	520.4	23.13
3	31.03.2017	28.04.2017	8.358	532.5	23.67

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* Reference	:	BBMP/DZ/AEE/TDSD/PR/146/2016-17 Dated: 25.03.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	28.04.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.03.2017	28.04.2017	8.225	510.2	22.68
2	31.03.2017	28.04.2017	8.368	525.6	23.36
3	31.03.2017	28.04.2017	8.405	538.9	23.95

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Job No.: CTCE/BBMP/SEHK/W.No.15/CSR-03/306g/Precast slab/2016-17 05.04.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. S.E. Hemanthkumar,** #290, 5th Cross, 6th A Main Road, Bhuvaneshwari Nagara, Bangalore – 560 057.
* Name of sub work	:	Improvements & Construction of CC drains back side of the Ayyappa temple road Dasarahalli in Ward No.15, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/146/2016-17 Dated: 25.03.2017
* Sample ID	:	Precast slab
* Grade of Concrete	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	01.04.2017
Date of Testing	:	05.04.2017

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.405	2515.42	1.64	0.961	30.25	15.41	16.64	17.31	21.64
2	50.00	83.00	0.415	2546.48	1.66	0.963	32.55	16.58	17.90	17.25	21.56
3	50.00	84.00	0.413	2504.04	1.68	0.965	33.95	17.29	18.67	18.03	22.54

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